

PROJECT DESCRIPTION

I GENERAL:

THIS PROJECT INVOLVES THE INSTALLATION OF TWO HAZARD IDENTIFICATION BEACONS IN EACH DIRECTION ALONG MD 545 PRIOR TO THE INTERSECTION AT LEEDS ROAD, CECIL COUNTY. MD 545 IS ASSUMED TO TRAVEL IN A NORTH-SOUTH DIRECTION.

II OPERATION AND EQUIPMENT:

A FULL-TRAFFIC-ACTIVATED, EIGHT PHASE CONTROLLER WITH INTERSECTION MONITOR AND BATTERY BACK-UP AND PHOTO CELL HOUSED IN A 'G' TYPE POLE MOUNTED CABINET SHALL BE INSTALLED AT BOTH LOCATIONS.

THE SIGNAL HEADS WILL OPERATE IN AN ALTERNATING FLASHING OPERATION.

III SPECIAL NOTES:

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF THE SHA AT 410-787-7631 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST ADDRESS, ZIP CODE, AND PHONE NUMBER.

EQUIPMENT LISTS

A. EQUIPMENT TO BE FURNISHED BY THE ADMINISTRATION:

ITEM	DESCRIPTION	QUANTITY
9034	(SIDE OF POLE MT.) 12" I-WAY, 1 SECTION SIGNAL-ALUMINUM (YELLOW).	4 EA.
9062	12" O GAUGE 30" STRAIN POLE (1 3/4" X 90" ANCHORS INCLUDED).	2 EA.
9089	W2-1 "INTERSECTION SYMBOL" SIGN 30" X 30" POLE MT.	12.50 S.F.
9090	D3-2 "LEEDS RD." SIGN 16" X VAR. POLE MT.	16 S.F.
9000	'G' TYPE CABINET CONTROLLER WITH INTERSECTION MONITOR II WITH BATTERY BACKUP HOUSED IN A POLE MOUNTED.	2 EA.

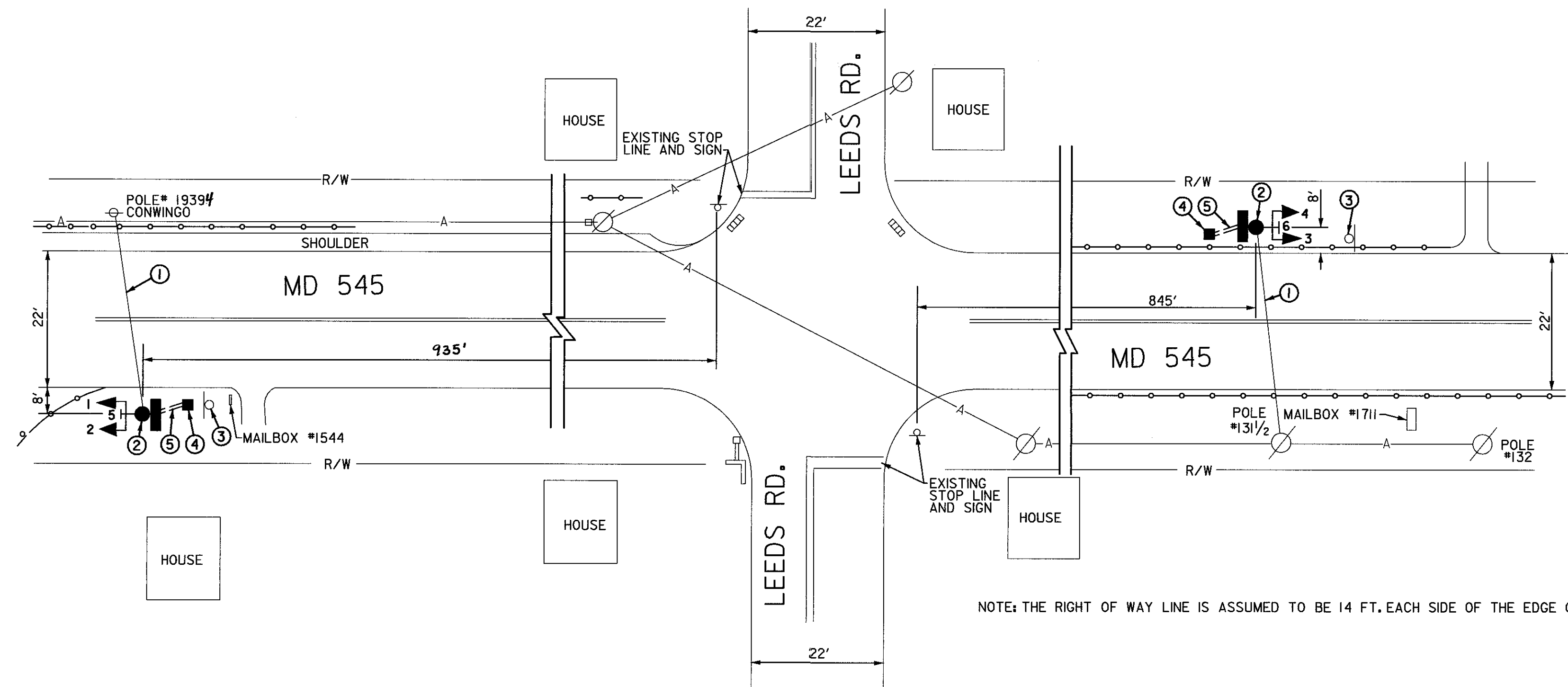
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR:

1001	MAINTENANCE OF TRAFFIC	1 EA.
2001	TEST PIT EXCAVATION	1 C.Y.
8001	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION	5.4 C.Y.
8011	INSTALL SIGNAL HEAD (ANY TYPE)	4 EA.
8019	INSTALL CONTROLLER AND CABINET POLE MOUNT.	2 EA.
8027	FURNISH AND INSTALL 3" PVC ELECTRICAL CONDUIT SCHEDULE 80 RIGID TRENCHED	20 L.F.
8033	FURNISH AND INSTALL HANDHOLE	2 EA.
8034	FURNISH AND INSTALL GROUND ROD (3/4" X 90").	2 EA.
8043	FURNISH AND INSTALL ELECTRIC CABLE 3-CONDUCTOR (NO. 14 AWG).	200 L.F.
8048	FURNISH AND INSTALL ELECTRIC CABLE 1-CONDUCTOR (NO. 8 AWG)-THHN/THWN.	120 L.F.
8049	FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG).	40 L.F.
8053	INSTALL GROUND MOUNTED SIGNS.	28.50 S.F.
8000	REMOVE AND DISPOSE OF EXISTING INTERSECTION SIGNS.	12.50 S.F.
8076	FURNISH AND INSTALL 1 1/4" ELECTRICAL CONDUIT-GALVANIZED RISER.	50 L.F.
8070	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT (120/240V, 1 PHASE, 3 WIRE SYSTEM).	2 EA.
8073	FURNISH AND INSTALL PHOTOCELL.	2 EA.
8078	INSTALL STRAIN POLE (ANY SIZE)	

PROPOSED SIGNALS

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MD 545 IS ASSUMED TO TRAVEL IN A NORTH - SOUTH DIRECTION



NOTE: THE RIGHT OF WAY LINE IS ASSUMED TO BE 14 FT. EACH SIDE OF THE EDGE OF ROAD.

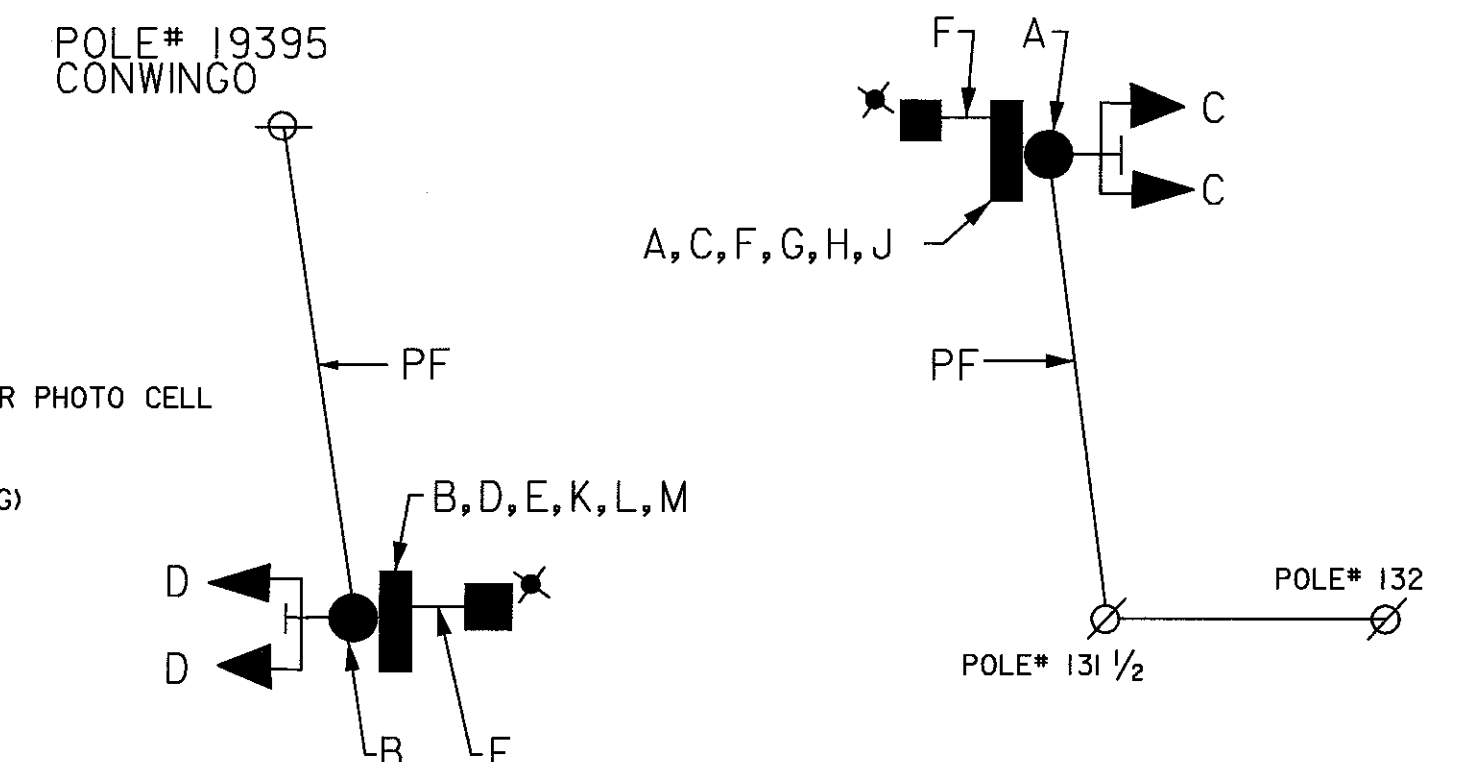
CONSTRUCTION DETAILS

1. INSTALL OVERHEAD SERVICE.
2. INSTALL 30 FT. POLE, SIGNAL HEADS, SIGNS, POLE MOUNTED CABINET, CONTROLLER AND PHOTO CELL. (NOTE: RISER, 3" BEND AND SERVICE).
3. REMOVE EXISTING INTERSECTION SIGN.
4. INSTALL HANDHOLE AND GROUND ROD.
5. INSTALL 3" PVC ELECTRICAL CONDUIT.

WIRING KEY

- PF - PROPOSED OVERHEAD FEED
✱ - GROUND ROD
A,B - 3 CONDUCTOR (NO. 14 AWG) ELECTRICAL CABLE FOR PHOTO CELL
C,D - 3 CONDUCTOR (NO. 14 AWG) ELECTRICAL CABLE
E,F - GROUND WIRE STRANDED BARE COPPER (NO. 6 AWG)
G,H,J,K,L,M - 1 CONDUCTOR (NO. 8 AWG) THHN/THWN

WIRING DIAGRAM



UTILITY LEGEND

—T—	—T—	TELEPHONE CABLES
—G—	—G—	GAS MAIN
—W—	—W—	WATER MAIN
—S—	—S—	SEWER MAIN
—E—	—E—	ELECTRIC CABLES
—A—	—A—	AERIAL CABLES
—BC—	—BC—	BURIED CABLE
—SD—	—SD—	STORM DRAIN

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ASST. DISTRICT ENGINEER, TRAFFIC

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DIRECTOR, OFFICE OF TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

MD 545 AT LEEDS ROAD

SIGNAL # 07054504.00

DRAWN BY: *Winters*
CHECK BY: *Winters*
SCALE: NOT TO SCALE

S.A.P. NO.
S.H.A. NO.
COUNTY

AW 276 A56/ B56
CECIL

TS-3767

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